

PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PREPARE SUBMITTALS FOR THE FOLLOWING ITEMS.

AGGREGATE BASE SHALL BE PROVIDED BY LOCAL SUPPLIER MEETING PROJECT

- 2. PVC PIPE AND FITTINGS
- PLUG VALVE
- 4. CONCRETE DROP INLET AND LID
- 5. VISQUEEN PLASTIC
- 6. VISQUEEN STAPLES

OF THE PROJECT.

EVAPORATION.

## **GENERAL CONSTRUCTION REQUIREMENTS:**

1. CONSTRUCTION PERIOD OF PERFORMANCE ALL WORK SHALL BE COORDINATED WITH REGIONAL WATER QUALITY CONTROL BOARD

(RWQCB) SITE PERSONNEL BEFORE COMMENCEMENT OF PROJECT.

STAGING AREA CONTRACTOR SHALL COORDINATE STAGING AREA(S) WITH RWQCB BEFORE COMMENCEMENT OF PROJECT. POTENTIAL STAGING AREAS ARE SHOWN ON SHEET C103.

3. PERSONNEL TRAINING ALL EMPLOYEES PERFORMING WORK ON THIS SITE SHALL BE 40-HOUR TRAINED UNDER 29

CFR 1910.120 AND CCR TITLE 8-5192. SOLID WASTE THE CONTRACTOR SHALL MANAGE ALL SOLID WASTE GENERATED DURING THE PROJECT. SOLID

WASTES SHALL BE PLACED IN CONTAINERS AND EMPTIED ON A REGULAR BASIS. SOLID

WASTE INCLUDES BUT IS NOT LIMITED TO PIPE, CONCRETE, AND ASPHALT CONCRETE. 5. DUST CONTROL THE CONTRACTOR SHALL MAINTAIN DUST CONTROL MEASURES THROUGHOUT THE DURATION

6. FUEL AND LUBRICANT STORAGE STORAGE, FUELING, AND LUBRICATIONS EQUIPMENT AND MOTOR VEHICLES SHALL BE CONDUCTED IN A MANNER THAT AFFORDS THE MAXIMUM PROTECTION AGAINST SPILLS AND

7. EXISTING CONDITIONS VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

8. SITE SURVEY A SITE SURVEY HAS NOT BEEN PERFORMED. DIMENSIONS AND ELEVATIONS SHOWN ON DRAWINGS MAY BE INACCURATE. SURVEY TO VERIFY SITE FEATURES, BURIED AND ABOVE GROUND UTILITIES, ELEVATIONS AND DIMENSIONS, RIGHT OF WAY, PROPERTY LINES, EASEMENTS, AND ALL OTHER ITEMS SHOWN ON THE DRAWINGS OR NOT SHOWN THAT WILL IMPACT THE DESIGN SHALL BE PERFORMED PRIOR TO CONSTRUCTION.

9. UNDERGROUND UTILITIES THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, APPURTENANCES AND STRUCTURES AS SHOWN ON THESE DRAWINGS WERE COMPILED FROM INSTALLATION INFORMATION AND CONVERSATIONS WITH RWQCB. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE TO IMMEDIATELY REPORT/REPAIR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY HIS WORK, WHETHER SHOWN OR NOT SHOWN.

10. UNDERGROUND UTILITIES THE CONTRACTOR SHALL EXPOSE, VERIFY AND BACKFILL ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES AT UTILITY CROSSINGS PRIOR TO EXCAVATION OF PIPELINE TRENCH. UTILITY CROSSINGS AT A DEPTH GREATER THAN 12 INCHES BELOW TRENCH BOTTOM DO NOT NEED TO BE EXPOSED. UTILITY ALIGNMENT AND GRADE MAY BE CHANGED IF THERE ARE CONFLICTS WITH ANY EXISTING UNDERGROUND UTILITIES AND STRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT.

11. SHORING WHEN TRENCH EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHORING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDER-PINNING TO FULLY PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL PROVIDE PLANS SHOWING DESIGN PREPARED

12. BEST MANAGEMENT PRACTICES CONTRACTOR SHALL FOLLOW BEST MANAGEMENT PRACTICES DURING CONSTRUCTION PER ATTACHMENT C AND D TO THE RWQCB'S 2017 WORK PLAN FOR LEVIATHAN MINE. THESE ATTACHMENTS REFER TO MINIMIZING GROUND DISTURBANCE AND INTRODUCTION AND SPREAD OF NOXIOUS WEEDS, RESPECTIVELY.

AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER.

**CONSTRUCTION SPECIFICATIONS:** 

THIS PROJECT SHALL BE COMPLETED USING THE REQUIREMENTS SHOWN ON THESE DESIGN DRAWINGS AND THE SPECIFICATIONS PRESENTED ON THIS SHEET. ABSENCE OF CONSTRUCTION SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR OF ITS DUTY TO COMPLY WITH INDUSTRY-ACCEPTED CODES AND STANDARDS. THE CONTRACTOR SHALL REFER TO THE FOLLOWING CODES AND STANDARDS IF QUESTIONS ARISE OR SPECIFIC CONSTRUCTION REQUIREMENTS ARE OMITTED FROM THE DRAWINGS.

2015 CALTRANS STANDARD SPECIFICATIONS AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

EARTHWORK

A. CONTAMINATED SOILS CONTAMINATED SOILS MAY BE ENCOUNTERED ON SITE. SOME SOILS MAY BE REWORKED INTO THE SLOPE. EXCESS SOILS SHALL BE REMOVED AND PLACED ON PLASTIC OR IN BINS. MATERIAL WILL BE SAMPLED BY THE OWNER AND A DETERMINATION OF DISPOSAL OR REUSE DISPOSITION WILL BE MADE. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL PROVIDE PLASTIC LINED ROLL OFF BINS TO CONTAIN THE MATERIAL DISTURBED WITHIN THE PROJECT

AGGREGATE BASE AGGREGATE BASE MATERIAL SHALL CONFORM TO CLASS 2 AGGREGATE BASE, 3/4 INCH MAXIMUM AGGREGATE GRADING REQUIREMENTS, OF THE CALTRANS STANDARD SPECIFICATIONS THE CONTRACTOR SHALL PROVIDE FOR REVIEW AND APPROVAL AN AGGREGATE BASE SUBMITTAL THAT SUBSTANTIATES THAT THE MATERIAL PROPOSED TO BE DELIVERED TO THE PROJECT COMPLIES WITH THE AGGREGATE GRADING AND QUALITY REQUIREMENTS SPECIFIED IN SECTION 26 OF CALTRANS STANDARD SPECIFICATIONS FOR CLASS 2, 3/4 INCH MAXIMUM AGGREGATE GRADING.

3. 1/2 INCH CRUSHED ROCK SUITABLE MATERIAL MEETING THE FOLLOWING GRADATION REQUIREMENTS

SIEVE SIZE	% PASSING
¾-INCH	100
½−INCH	90-100
¾−INCH	20-60
NO. 4	0-15
NO. 8	0-5

4. 2 INCH CRUSHED ROCK SUITABLE MATERIAL MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	% PASSING
3-INCH	100
2-INCH	90-100
¾-INCH	20-70
NO. 4	0-10
NO. 8	0-5

COMPACTION

AGGREGATE BASE,  $\frac{1}{2}$  INCH CRUSHED ROCK, AND 2 INCH CRUSHED ROCK SHALL BE PLACED WITH MAXIMUM 6 INCH LIFT THICKNESS AND COMPACTED WITH HEAVY EQUIPMENT OR VIBRATORY PLATE TAMPER. AECOM INSPECTOR SHALL CONFIRM SUFFICIENT COMPACTION HAS BEEN ATTAINED.

6. 1/4 TON ROCK SLOPE PROTECTION (CALTRANS 72-1) SUITABLE MATERIAL MEETING THE FOLLOWING GRADATION REQUIREMENTS SHALL BE PLACED. AECOM INSPECTOR SHALL CONFIRM SUFFICIENT PLACEMENT.

ALCOM INSPECTOR SHALL	L CONFIRM SUFFICIENT I
WEIGHT	% PASSING
½ TON	95–100
¼ TON	0-50
75 LBS	0-5

GEOTEXTILE USE MIRIFI 140N OR SIMILAR. ADJACENT ROLLS SHALL BE OVERLAPPED MINIMUM OF 24 INCHES.

USE GEOGRID WITH RADIAL STIFFNESS OF 225 KN/M OR GREATER. ADJACENT ROLLS SHALL BE OVERLAPPED MINIMUM OF 24 INCHES.

9. HARDWARE AND FASTENERS ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL AS AVAILABLE. IF STAINLESS STEEL HARDWARE IS NOT AVAILABLE COAT ALL EXPOSED METAL SURFACES WITH RUST-OLEUM HIGH PERFORMANCE 9400 SYSTEM HIGH GLOSS POLYESTER URETHANE.

10. PVC PIPE AND FITTINGS PIPE SHALL BE 6" DIAMETER SDR 21 OR LOWER PERFORATED PVC WITH 14 STAGGERED % INCH DIAMETER HOLES PER FOOT. PROVIDE 6" STANDARD TEES AND FITTINGS (BEND, CAPS) AS REQUIRED. APPROXIMATELY 20' OF PIPE SHALL BE 6" DIAMETER SDR 21 OR LOWER SOLID PVC (FROM TIE-IN AT LEVIATHAN CREEK TO T-VALVE).

USE 3000 PSI CONCRETE. MAX AGGREGATE SIZE IS 1 INCH. APPROXIMATELY 564 LBS CONCRETE PER CUBIC YARD. MAX WATER/CEMENT RATIO = 0.5

12. VALVES USE PLUG VALVE. MATERIAL TESTING:

AECOM SHALL PROVIDE AN INSPECTOR WITH A PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST LICENSURE TO OBSERVE AND CONFIRM SUFFICIENT PLAN REQUIREMENTS HAVE BEEN

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NOTE:
THIS PLAN SET IS FOR THE PURPOSE OF TEMPORARY REPAIRS AND TO IMMEDIATELY ALLOW ACCESS ALONG LOWER POND 3 ROAD. ASSESSMENT FOR LONG-TERM HAZARDS AND PERMANENT REPAIRS WILL BE CONDUCTED BY AECOM.

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						DESIGNED BY:	KA
						DRAWN BY:	CP
						CHECKED BY:	MH
						IN CHARGE:	SF
 REV.	DATE	BY	CHK.	APPR.	DESCRIPTION	DATE:	6/15/2017

ALPINE COUNTY, CALIFORNIA

LOWER POND 3 ROAD TEMPORARY SLOPE REPAIR

SHEET INDEX AND CONSTRUCTION **SPECIFICATIONS** 

JOB NO. 60540145 CONTRACT/TASK ORDER NO SHEET NO. G102

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